

# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of  
Invention

Method and apparatus for routing a set of nets

Application Number: 10/066187



Confirmation Number: 5277

First Named Applicant: Steven Teig

Attorney Docket Number: SPLX.P0133

Art Unit: 2825

Examiner: Binh C. Tat

Search string: ( 6155725 or 6166441 or 6175950 or 6209123  
or 6216252 or 6230306 or 6247167 or 6253363  
or 6260179 or 6289495 or 6292929 or 6301686  
or 6324674 or 6327693 or 6327694 or 6330707  
or 6378121 or 6385758 or 6401234 or 6405358  
or 6407434 or 6412097 or 6412102 or 6463575  
or 6473891 or 6519751 or 6526555 or 6543043  
or 6557145 or 6567967 or 6586281 or  
6665852 ).pn.


## US Patent Documents

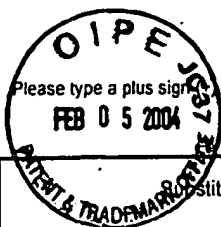
Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
B1	1	6155725	2000-12-05	Scepanovic et al.			
B1	2	6166441	2000-12-26	Geryk			
B1	3	6175950	2001-01-16	Scepanovic et al.	B1		
B1	4	6209123	2001-03-27	Maziasz et al.	B1		
B1	5	6216252	2001-04-10	Dangelo et al.	B1		
B1	6	6230306	2001-05-08	Raspopovic et al.	B1		
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B1	8	6253363	2001-06-26	Gasarov et al.	B1		
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B1	24	6463575	2002-10-08	Takahashi	B1
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B1	27	6526555	2003-02-25	Teig et al.	B1
B1	28	6543043	2003-04-01	Wang et al.	B1
B1	29	6557145	2003-04-29	Boyle et al.	B2
B1	30	6567967	2003-05-20	Greidinger et al.	B2
B1	31	6586281	2003-07-01	Gabara et al.	B1
B1	32	6665852	2003-12-16	Xing et al.	B2

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Examiner Name	Date
	06/10/04



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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Application Number	10/066,456	
			Filing Date	1/31/02	
			First Named Inventor	Steven Teig, et al.	
			Group Art Unit	2825	
			Examiner Name	B. Tat	
Sheet	1	of	2	Attorney Docket Number	SPLX.P0099

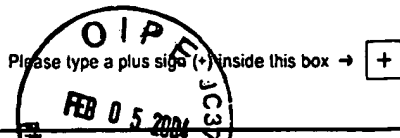
U.S. PATENT DOCUMENTS						
Examiner* Initials	Cite No. <sup>1</sup>	U.S. Patent Document Number Kind Code* (if known)		Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BT	1.	2002/0157063	A1	10-24-2002	Besson	
	2.	2002/0178432	A1	11-28-2002	Kim et al.	
	3.	2003/0145288	A1	07-31-2003	Wang et al.	
	4.	4,703,435		10-27-1987	Darringer et al.	
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	7.	5,892,678		04-06-1999	Tokunoh et al.	
	8.	5,903,466		05-11-1999	Beausang et al.	
	9.	5,991,524		11-23-1999	Belkhale et al.	
	10.	6,080,204		06-27-2000	Mendel	
	11.	6,311,317	B1	10-30-2001	Khoche et al.	
	12.	6,389,586	B1	05-14-2002	McElvain	
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	14.	6,421,818	B1	07-16-2002	Dupenloup et al.	
	15.	6,446,240	B1	09-03-2002	Iyer et al.	
	16.	6,453,447	B1	09-17-2002	Gardner et al.	
	17.	6,470,486	B1	10-22-2002	Knapp	
	18.	6,519,754	B1	02-11-2003	McElvain et al.	
	19.	6,519,609	B1	02-11-2003	Touzet	
	20.	6,539,536	B1	03-25-2003	Singh et al.	
	21.	6,543,037	B1	04-01-2003	Limquenco et al.	

Examiner Signature		Date Considered	06/10/04
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Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE          STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Application Number	10/066,456
				Filing Date	1/31/02
				First Named Inventor	Steven Teig, et al.
				Group Art Unit	2825
				Examiner Name	B. Tat
Sheet	2	of	2	Attorney Docket Number	SPLX.P0099

U.S. PATENT DOCUMENTS					
BT	22.	6,546,541	B1	04-08-2003	Petranovic et al.
BT	23.	6,618,835	B1	09-09-2003	Garlapati et al.

NON PATENT LITERATURE DOCUMENTS				
Examiner* Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
BT	24.	NN78055443, "Automatic Remap", IBM Technical Disclosure Bulletin, Vol. 20, No. 12, May 1978, pp. 5443-5445 (5 pages).		
BT	25.	NN9411291, "Design of Portable Library using Parameterized Cells", IBM Technical Disclosure Bulletin, Vol. 37, No. 11, pp. 291-292 (4 pages).		
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BT	27.	Ruiz et al., "Design and Prototyping of DSP Custom Circuits Based on a Library of Arithmetic Components", Vol. 1, 9 November 1997, pp. 191-196.		
BT	28.	Tamiya, Y., "Delay Estimation for Technology Independent Synthesis", 1997 Proceedings of the ASP-DAC '97, Asia and South Pacific Design Automation Conference, 28 January 1997, pp. 31-36.		

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			Filing Date 1/31/02
			First Named Inventor Steven Teig, et al.
			Group Art Unit 2825
			Examiner Name B. Tat
Sheet 1	of 2	Attorney Docket Number SPLX.P0099	

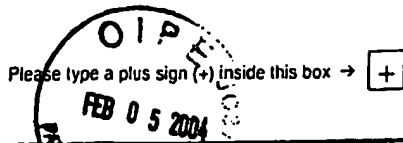
U.S. PATENT DOCUMENTS						
Examiner's Initials	Cite No. <sup>1</sup>	U.S. Patent Document		Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
BT	1.	5,311,442		05-10-1994	Fukushima	
	2.	5,519,630		05-21-1996	Nishiyama et al.	
	3.	5,521,835		05-28-1996	Trimberger	
	4.	5,537,341		07-16-1996	Rose et al.	
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	6.	5,696,974		12-09-1997	Agrawal et al.	
	7.	5,752,000		05-12-1998	McGeer et al	
	8.	5,574,441		05-19-1998	Tokunoh et al.	
	9.	5,787,010		07-28-1998	Schaefer et al.	
	10.	6,023,566		02-08-2000	Belkhale et al.	
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	14.	6,301,696		11-09-2001	Lien et al.	
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	17.	6,470,478	B1	10-22-2002	Bargh et al.	
	18.	6,473,884		10-29-2002	Ganai et al	
	19.	6,496,972	B1	12-17-2002	Segal	
	20.	6,523,156	B2	02-18-2003	Cirit	
	21.	6,574,779	B2	06-03-2003	Allen et al.	

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				First Named Inventor	Steven Teig, et al.
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NON PATENT LITERATURE DOCUMENTS					
Examiner* Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
BT	22.	Crastes, M. et al., A technology Mapping Method Based on Perfect and Semi-Perfect Matchings, Design Automation Conference, 1991, 28 <sup>th</sup> ACM/IEEE, June 17-21, 1991, pp. 93-98.			
BT	23.	Devadas, S. et al., Synthesis and Optimization for Robustly Delay-fault Testable Combinational Logic Circuits, Design Automation Conference, 1990, 27 <sup>th</sup> ACM/IEEE, June 24-28, 1990, pp.221-227.			
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Examiner Signature		Date Considered	06/10/04
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Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	2
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## RELATED U.S. PATENT APPLICATIONS

Examiner* Initials	Cite No. <sup>1</sup>	U.S. Patent Application		Name of Patentee or Applicant of Cited Document	Date of Filing MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Serial Number				
BT	1.	10/062,017		Steven Teig & Asmus Hetzel	01-31-02	
	2.	10/061,459		Steven Teig & Asmuz Hetzel	01-31-02	
	3.	10/062,014		Steven Teig & Asmus Hetzel	01-31-02	
	4.	10/062,044		Steven Teig & Asmuz Hetzel	01-31-02	
	5.	10/066,264		Steven Teig & Asmus Hetzel	01-31-02	
	6.	10/066,188		Steven Teig & Asmus Hetzel	01-31-02	
	7.	10/062,992		Steven Teig & Asmuz Hetzel	01-31-02	
	8.	10/061,474		Steven Teig & Asmus Hetzel	01-31-02	
	9.	10/061,719		Steven Teig & Asmus Hetzel	01-31-02	
	10.	10/062,993		Steven Teig & Asmus Hetzel	01-31-02	
BT	11.	10/062,047		Steven Teig & Asmuz Hetzel	01-31-02	

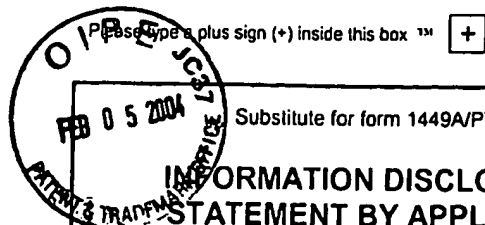
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		Number	Kind Code* (if known)			
BT	12.	5,649,165		Jain et al.	07-15-97	
BT	13.	6,301,687	B1	Jain et al.	10-09-01	

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				First Named Inventor	Steven Teig, et al.
				Group Art Unit	2825
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Sheet	2	of	2	Attorney Docket Number	SPLX.P0099

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner* Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
B9	14.	D. Jongeneel, R. Otten, Y. Watanabe and R. K. Brayton, Area and Search Space Control for Technology Mapping, 37 <sup>th</sup> Design Automation Conference, 86-91, 2000.		
1	15.	Henrik Reif Andersen, An Introduction to Binary Decision Diagrams, October 1997 (minor revisions April 1998), 36 pp.		
	16.	Jerry Burch and David Long, Efficient Boolean Function Matching, Proc. ICCAD 1992, 408-411.		
	17.	John Fishburn, A Depth-Decreasing Heuristic for Combinational Logic; or How to Convert Ripple-Carry Adder into a Carry-Lookahead Adder or Anything In-Between, Proceedings of the 27 <sup>th</sup> Design Automation Conference, 361-364, 1990.		
	18.	Kamal Chaudhary and Massoud Pedram, A Near Optimal Algorithm for Technology Mapping Minimizing Area under Delay Constraints, Proceedings of the 29 <sup>th</sup> Design Automation Conference, 492-498, 1992.		
	19.	Kurt Keutzer, DAGON: Technology Binding and Local Optimization by DAG Matching, Proceedings of the 24 <sup>th</sup> Design Automation Conference, 341-347, 1987		
	20.	Randal Bryant, Symbolic Boolean Manipulation with Ordered Binary Decision Diagrams, CMU CS Tech Report CMU-CS-92-160.		
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B5	23.	Zbigniew J. Czech, et al., An Optimal Algorithm for Generating Minimal Perfect Hashing Functions, Information Processing Letters, 43(5): 257-264, October 1992		

Examiner Signature	<i>[Signature]</i>	Date Considered	06/15/04
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\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.